

Exhibit A

Clean Version of The Pending Claims in U.S. Patent Application Ser. No. 09/714,882

- 1.(previously amended) An isolated nucleic acid molecule comprising the nucleotide sequence shown in SEQ ID NO:1.
- 2.(previously amended) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO:2.
- 3.(original) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO:4.
- 4.(original) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO:6.
- 5.(original) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO:8.
6. (original) An isolated nucleic acid molecule comprising a nucleotide sequence that encodes the amino acid sequence shown in SEQ ID NO:10.
- 7.(previously added) An expression vector comprising a nucleic acid sequence of Claim 2.
- 8.(previously added) A cell comprising the expression vector of Claim 7.

Exhibit B

Clean version of title in
U.S. Patent Application Ser. No. 09/714,882

Human *Notch* Ligand Proteins and Polynucleotides Encoding the Same

Exhibit C

Marked-up version of title in
U.S. Patent Application Ser. No. 09/714,882

[Novel] Human *Notch* Ligand Proteins and Polynucleotides Encoding the Same

Exhibit D
BLAST result of SEQ ID NO:1 versus human genome

MEGABLAST 1.2.3-Paracel [2001-11-20]

Reference:

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.

Database: Homo_sapiens.latestgp.masked.fa
33,840 sequences; 200,810,911,373 total letters

Query= LEX91seqid1
(2070 letters)

Sequences producing significant alignments:	Score bits)	E Value
AL109657.8.1.100272	349	4e-93
AL117333.26.1.156813	<u>339</u>	<u>4e-90</u>

>AL109657.8.1.100272
Length = 100272

Score = 349 bits (176), Expect = 4e-93
Identities = 176/176 (100%)
Strand = Plus / Minus

Query: 1644 aggcaatgcatttgcatacgtaaaaaattggagattaccattactatggctatggactaa
1703 |||||

Sbjct: 68087 aggcaatgcatttgcatacgtaaaaaattggagattaccattactatggctatggactaa
68028 |||||

Query: 1704 gaaagactatcaaacagcagccacacactacagcattgcagccaacaaataccacaacgc
1763 |||||

Sbjct: 68027 gaaagactatcaaacagcagccacacactacagcattgcagccaacaaataccacaacgc
67968 |||||

Query: 1764 gcaagccatgttcaatctggcttatatgtatgaacacggcttaggcattcacaagg 1819
|||

Sbjct: 67967 gcaagccatgttcaatctggcttatatgtatgaacacggcttaggcattcacaagg 67912

Score = 333 bits (168), Expect = 2e-88
Identities = 168/168 (100%)
Strand = Plus / Minus

Query: 1403 agctttataaaagggtgtctgtgaactaggccactgggctgagaaaattcctgacagcttact
1462 |||||||
Sbjct: 74167 agctttataaaagggtgtctgtgaactaggccactgggctgagaaaattcctgacagcttact
74108 |||||||

Query: 1463 ttgcctataaggatggtgatatacgattcttcgttcagttatgcactgttcagaaaa
1522 |||||||
Sbjct: 74107 ttgcctataaggatggtgatatacgattcttcgttcagttatgcactgttcagaaaa
74048

Query: 1523 tggggtatgaagtagctaaaggcaattcagcattcatttggaaatcta 1570
|||
Sbjct: 74047 tggggtatgaagtagctaaaggcaattcagcattcatttggaaatcta 74000

Score = 311 bits (157), Expect = 9e-82
Identities = 157/157 (100%)
Strand = Plus / Minus

Query: 746 ttgctgacacat~~tt~~aaaaaaagtgaaggtgttccagtgaaaaaaagtgagactaacggaaa 805
Sbjct: 95093 ttgctgacacat~~tt~~aaaaaaagtgaaggtgttccagtgaaaaaaagtgagactaacggaaa
95034

Score = 288 bits (145), Expect = 1e-74
Identities = 148/149 (99%)
Strand = Plus / Minus

Query: 1256 ctggctctggaatatgaaaggattaaacttgcccaaataattttacctggcatctc
1315 |||||||
Sbjct: 75501 ctggctctggaatatgaaaggattaaacttgcccaaataattttacctggcatctc
75442 |||||||

Query: 1316 agagtgggcagccctcgccatttattatctggccaagatgtatgcaacaggaacaggag
1375

Sbjct: 75441 agagtgggcagcccttgcattattatctggccaagatgtatgcaacaggaacaggag
75382

Score = 260 bits (131), Expect = 3e-66
Identities = 131/131 (100%)
Strand = Plus / Minus

Query: 1937 tgtttttaat 1947
||| | | | | | | |
Sbjct: 58852 tgtttttaat 58842

Score = 244 bits (123), Expect = 2e-61
Identities = 123/123 (100%)
Strand = Plus / Minus

Query: 1948 cagttcacaacgagatggactggctgaaactggacaacaccattggaccacactggac
2007 |||||||
Sbjct: 58258 cagttcacaacgagatggactggctgaaactggacaacaccattggaccacactggac
58199 |||||||

Query: 2008 ttatttgtgattggcctcattgttcctggctgatTTgttgcttagaaatcaccatggg
2067 |||||||
Sbjct: 58198 ttatttgtgattggcctcattgttcctggctgatTTgttgcttagaaatcaccatggg
58139 |||||||

Query: 2068 tag 2070
|||

Sbjct: 58138 tag 58136

Score = 173 bits (87), Expect = 5e-40
Identities = 88/89 (98%)
Strand = Plus / Minus

Query: 1167 gaattatgccraagcacttaatactttcagaaagctgcggaaaaagggtggccgacgc
1226 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

Sbjct: 78242 gaattatgccgaagcacttaatactttcagaaagctgcggaaaaagggtggccgacgc
78183 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

Query: 1227 acagttccagtttaggcttcatgtactact 1255
||||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 78182 acagttccagtttaggcttcatgtactact 78154

Score = 165 bits (83), Expect = 1e-37
Identities = 87/88 (98%), Gaps = 1/88 (1%)
Strand = Plus / Minus

Query: 659 tttt-ggggtacagatattgtcgggaatcaatgttctacagaattgtgaagttgcccta 717
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 96507 ttttaggggtacagatattgtcgggaatcaatgttctacagaattgtgaagttgcccta
96448 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

Query: 718 agttattacaagaaagtggcagattata 745
||||||| ||||| ||||| ||||| |||||
Sbjct: 96447 agttattacaagaaagtggcagattata 96420

Score = 161 bits (81), Expect = 2e-36
Identities = 81/81 (100%)
Strand = Plus / Minus

Query: 1025 agatgtatTTAGAGGGGAATGCTGCCGTGCCGAAAATAACGCTACTGCCTTAAGTACT
1084 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
Sbjct: 84768 agatgtatTTAGAGGGGAATGCTGCCGTGCCGAAAATAACGCTACTGCCTTAAGTACT
84709 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

Query: 1085 tttccatggcagccagtaagg 1105
||||||| ||||| ||||| |||||
Sbjct: 84708 tttccatggcagccagtaagg 84688

Score = 151 bits (76), Expect = 2e-33
Identities = 76/76 (100%)
Strand = Plus / Minus

Query: 1571 aaaaggctaacattcttggaaaaagagaagatgtatccaatggcgcttcctatggaatc
1630 |||||||
Sbjct: 73892 aaaaggctaacattcttggaaaaagagaagatgtatccaatggcgcttcctatggaatc
73833

Query: 1631 gagctgccattcaagg 1646
|||||||
Sbjct: 73832 gagctgccattcaagg 73817

Score = 137 bits (69), Expect = 3e-29
Identities = 69/69 (100%)
Strand = Plus / Minus

Query: 958 aaagcattacactacttcttaaggcagcaaaggccggagtgcaaatgccatggcatt
1017 |||||||
Sbjct: 86239 aaagcattacactacttcttaaggcagcaaaggccggagtgcaaatgccatggcatt
86180

Query: 1018 ataggaaag 1026
|||||||
Sbjct: 86179 ataggaaag 86171

Score = 129 bits (65), Expect = 7e-27
Identities = 65/65 (100%)
Strand = Plus / Minus

Query: 1103 agggcaatgcaatcgcccttcatgggcttggcttcttactttcatggaaaaggagttc
1162 |||||||
Sbjct: 78856 agggcaatgcaatcgcccttcatgggcttggcttcttactttcatggaaaaggagttc
78797

Query: 1163 ccctg 1167
|||||
Sbjct: 78796 ccctg 78792

Score = 125 bits (63), Expect = 1e-25
Identities = 63/63 (100%)
Strand = Plus / Minus

Query: 602 aggcactgatatattacaccccttggaaagtgcggagaaacatgatgtcccagatgatt 661
Sbjct: 96654 aggcactgatatattacaccccttggaaagtgcggagaaacatgatgtcccagatgatt
96595

Query: 662 tgg 664
|||
Sbjct: 96594 tgg 96592

Score = 113 bits (57), Expect = 4e-22
Identities = 57/57 (100%)
Strand = Plus / Minus

Query: 901 gtctctttggacaattacatctaattggcaggaaaggcttagatcaggattactac 957
Sbjct: 94054 gtctctttggacaattacatctaattggcaggaaaggcttagatcaggattactac 93998

Score = 109 bits (55), Expect = 7e-21
Identities = 55/55 (100%)
Strand = Plus / Minus

Query: 550 gcattaggattttgcattttatggaataggaatggaatatgatcaagctaagg 604
Sbjct: 97163 gcattaggattttgcattttatggaataggaatggaatatgatcaagctaagg 97109

>AL117333.26.1.156813
Length = 156813

Score = 339 bits (171), Expect = 4e-90
Identities = 171/171 (100%)
Strand = Plus / Minus

Query: 113 aggtatcagtgaacgaaatcaaacaatatttatcacacatattggacaaaagaacatcta 172
Sbjct: 28470 aggtatcagtgaacgaaatcaaacaatatttatcacacatattggacaaaagaacatcta
28411

Query: 173 gtaatgtaatcaataaaagagaaaatctcctggagaaaaagaagaatcaacgtaaaataa 232
Sbjct: 28410 gtaatgtaatcaataaaagagaaaatctcctggagaaaaagaagaatcaacgtaaaataa
28351

Query: 233 gaataaaaggaattcaaaataaagatatcttgaagagagaataagaatcatt 283

Sbjct: 28350 gaataaaaggaattcaaaataaagatatcttgaagagaataagaatcatt 28300

Score = 325 bits (164), Expect = 6e-86
Identities = 164/164 (100%)
Strand = Plus / Minus

Query: 387 agcctacctactttgccaaagcagctgacatggaaacttcaaagctatggagaaaat 446
Sbjct: 10641 agcctacctactttgccaaagcagctgacatggaaacttcaaagctatggagaaaat
10582

Query: 447 ggctgacgcttgctatttggaaatttggcgtgcaaaatataacacagcagctatccaatt 506
Sbjct: 10581 ggctgacgcttgctatttggaaatttggcgtgcaaaatataacacagcagctatccaatt
10522

Query: 507 atatgagtccttggctaaagaaggatcatgtaaagccccaaacg 550
Sbjct: 10521 atatgagtccttggctaaagaaggatcatgtaaagccccaaacg 10478

Score = 204 bits (103), Expect = 2e-49
Identities = 103/103 (100%)
Strand = Plus / Minus

Query: 284 tacaaaagcaagcagagaaaaatttacagatgaaggagaccagctatttaagatggca 343
Sbjct: 15820 tacaaaagcaagcagagaaaaatttacagatgaaggagaccagctatttaagatggca
15761

Query: 344 tcaaggttctccagcagtctaaaagccaaaaacaaaaagaaga 386
Sbjct: 15760 tcaaggttctccagcagtctaaaagccaaaaacaaaaagaaga 15718

Score = 117 bits (59), Expect = 3e-23
Identities = 59/59 (100%)
Strand = Plus / Minus

Query: 59 ctatcaaagcagaggaacataataaaagacaaaaggaaagaaatgtcaccacacaggt 117
Sbjct: 52828 ctatcaaagcagaggaacataataaaagacaaaaggaaagaaatgtcaccacacaggt
52770

Score = 115 bits (58), Expect = 1e-22
Identities = 58/58 (100%)
Strand = Plus / Minus

Query: 1 atgaaggccctgtctctgttaatagagatattgataattcttggggtcacaattaaaa 58
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Sbjct: 87231 atgaaggccctgtctctgttaatagagatattgataattcttggggtcacaattaaaa 87174